

Resource Summary Report

Generated by [kravitz2](#) on Aug 5, 2026

SV40 1: pBSSVD2005

RRID:Addgene_21826

Type: Plasmid

Proper Citation

RRID:Addgene_21826

Plasmid Information

URL: <http://www.addgene.org/21826>

Proper Citation: RRID:Addgene_21826

Insert Name: SV40 Large T

Organism: simian virus

Bacterial Resistance: Ampicillin

Vector Backbone Description: Backbone Size:3200; Vector Backbone:Bluescribe; Vector Types:Mammalian Expression; Bacterial Resistance:Ampicillin

Comments: SV40 large T antigen for immortalizing cells. See Author's Map for more information. Please note that this plasmid likely expresses a truncated SV40 large T antigen protein starting with the methionine at amino acid 109, when compared to GenBank reference sequence YP_003708382.1 (see NC_001669.1 for the corresponding nucleotide sequence). The plasmid functions as described to immortalize MEFs.

Plasmid Name: SV40 1: pBSSVD2005

Relevant Mutation: likely expresses aa109-708 of the large T antigen

Record Creation Time: 20220422T222057+0000

Record Last Update: 20260801T081008+0000

Ratings and Alerts

No rating or validation information has been found for SV40 1: pBSSVD2005.

No alerts have been found for SV40 1: pBSSVD2005.

Data and Source Information

Usage and Citation Metrics

We found 40 mentions in open access literature.

Listed below are recent publications. The full list is available at [kravitz2](#) .

Moujane F, et al. (2025) Corneal Stromal Stem Cell-Derived Extracellular Vesicles Attenuate ANGPTL7 Expression in the Human Trabecular Meshwork. Translational vision science & technology, 14(1), 21.

Batra J, et al. (2025) Coronavirus protein interaction mapping in bat and human cells identifies molecular and genetic switches for immune evasion and replication. bioRxiv : the preprint server for biology.

Pandey P, et al. (2025) Decoding nucleoside supplementation: how thymidine outperforms ribonucleosides in accelerating mammalian replication forks. Nucleic acids research, 53(19).

Li Z, et al. (2024) Viral integration promotes SV40T-induced immortalization by disturbing the expression of DNA/chromosome- and ECM-associated functional genes. Gene, 896, 148060.

Gleixner S, et al. (2024) A New Immortalized Human Lacrimal Gland Cell Line. Cells, 13(7).

Vanhecke D, et al. (2024) Refined tamoxifen administration in mice by encouraging voluntary consumption of palatable formulations. Lab animal, 53(8), 205.

Kopp J, et al. (2024) Golgi pH elevation due to loss of V-ATPase subunit V0a2 function correlates with tissue-specific glycosylation changes and globozoospermia. Cellular and molecular life sciences : CMLS, 82(1), 4.

Yi W, et al. (2023) Immortalization of mouse primary astrocytes. Gene, 865, 147327.

Maresca C, et al. (2023) PARP1 allows proper telomere replication through TRF1 poly (ADP-ribosyl)ation and helicase recruitment. Communications biology, 6(1), 234.

Niemi NM, et al. (2023) Pptc7 maintains mitochondrial protein content by suppressing receptor-mediated mitophagy. bioRxiv : the preprint server for biology.

Niemi NM, et al. (2023) PPTC7 maintains mitochondrial protein content by suppressing receptor-mediated mitophagy. Nature communications, 14(1), 6431.

Matos-Rodrigues G, et al. (2023) In vivo reduction of RAD51-mediated homologous recombination triggers aging but impairs oncogenesis. The EMBO journal, 42(20), e110844.

Ronson GE, et al. (2023) Mechanisms of synthetic lethality between BRCA1/2 and 53BP1 deficiencies and DNA polymerase theta targeting. Nature communications, 14(1), 7834.

de Cevins C, et al. (2023) Single-cell RNA-sequencing of PBMCs from SAVI patients reveals disease-associated monocytes with elevated integrated stress response. *Cell reports. Medicine*, 4(12), 101333.

Burr SP, et al. (2023) Cell lineage-specific mitochondrial resilience during mammalian organogenesis. *Cell*, 186(6), 1212.

Jamet S, et al. (2022) The arginine methyltransferase Carm1 is necessary for heart development. *G3 (Bethesda, Md.)*, 12(8).

Vasavda C, et al. (2022) Biliverdin reductase bridges focal adhesion kinase to Src to modulate synaptic signaling. *Science signaling*, 15(733), eabh3066.

Riffo E, et al. (2022) The Sall2 transcription factor promotes cell migration regulating focal adhesion turnover and integrin $\alpha 1$ expression. *Frontiers in cell and developmental biology*, 10, 1031262.

Rosenberger FA, et al. (2021) The one-carbon pool controls mitochondrial energy metabolism via complex I and iron-sulfur clusters. *Science advances*, 7(8).

Rosenberger FA, et al. (2021) Stable Isotope Labeling of Amino Acids in Flies (SILAF) Reveals Differential Phosphorylation of Mitochondrial Proteins Upon Loss of OXPHOS Subunits. *Molecular & cellular proteomics : MCP*, 20, 100065.